Design and Implementation of Enterprise Financial Management Information System Based on Internet

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Abstract: In order to improve the accuracy and precision of enterprise financial management information, this paper puts forward a design method of enterprise financial management information system based on Internet. This paper analyzes and expounds the requirements of financial management information system of electric power enterprises; Under the guidance of the design idea and scheme of electric power enterprise management information system, the overall structure and data flow of electric power enterprise management information system are analyzed and described, and the business framework and organizational structure of electric power enterprise financial management information system are designed in detail. Finally, the full text is summarized, and the follow-up ideas of financial management information system of electric power enterprises are put forward.

Keywords: Internet; Enterprise; financial management

1 INTRODUCTION

Financial management informatization itself has not formed its own theoretical system, and there are many theoretical problems that need to be studied and discussed urgently. Financial management informatization has not formed a standardized methodology system and evaluation system. Management innovation with financial management informatization as the core, financial system standardization, organic connection and unified planning of enterprise financial management information system and business information systems such as supply, marketing and storage, and software development, introduction and popularization and application suitable for the management process of this enterprise are all topics of financial management informatization. At present, great progress has been made in the informatization construction of financial management of group companies at home and abroad. This paper takes electric power enterprises as an example to study financial management [1].

With the development of Internet and information age, the system reform of electric power enterprises in China is gradually deepening, and the electric power industry has bid farewell to the original monopoly operation. With the separation of power generation and power grid and the opening of power market, the competitive situation of power market has formed, which has increased the uncertainty faced by power enterprises and thus increased the management risks of power enterprises. This kind of risk mainly comes from the following aspects: first, "separation of factory and network" changes the vertical integrated operation that relied on

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administrative orders to be carried out in accordance with market rules now; Second, with the transformation of power market and the increasingly mature demand of power customers, the power market is gradually changing from seller's market to buyer's market, and power enterprises must change the operating characteristics with administrative monopoly in the past and take customers as the center; Third, the comprehensive opening of the power market makes the competition of power enterprises come not only from home but also from abroad, which requires power enterprises to grasp and make full use of all kinds of useful information at home and abroad in time, and it is impossible to achieve such an effect by traditional information measurement and processing methods. All these have challenged the traditional management methods of China's power enterprises, especially put forward new requirements for the financial management of power enterprises, that is, the financial management of power enterprises must realize informationization. Therefore, it is of great practical significance and economic benefit to design the financial management information system of electric power enterprises [2-3].

2 CHARACTERISTICS OF FINANCIAL MANAGEMENT INFORMATION SYSTEM

Financial management information system (FMIS) is an indispensable subsystem of enterprise management information system. Accounting information often accounts for 60%-70% of enterprise information. FMIS is an entity that organizes accounting business and provides accounting information for users. Based on computer, it not only replaces manual accounting work, but also assists financial forecasting and decision-making and financial monitoring through systematic collection, processing, storage and transmission of accounting information. As a part of enterprise information system, FMIS has a lot in common with other subsystems in further dividing the basic functions of system information processing, system scalability, system connectivity and so on. However, as an accounting management system for information processing around capital, cost and profit, it has its own characteristics [4]. Mainly manifested in the following points:

(1) The amount of data is very large

Accounting takes currency as the main unit of measurement, and it is necessary to conduct continuous, systematic and complete accounting and supervision of production and business activities. The relevant data of every economic business of an enterprise should be included in AIS, so the amount of FMIS data generated, processed and stored is larger than that of the general information system, and the accounting data needs to be saved for a long time.

(2) The interface is very complicated.

Many business function modules in FMIS are closely related to other function management systems.

(3) The data structure is complex

The accounting data processing flow is more complicated, and there are many connections between the data. Many economic businesses will cause many changes in the possession and source of funds.

(4) The data processing method is very strict

In accounting work, a set of standards and methods must be strictly observed for various economic businesses and cannot be changed at will.

3 INTERNET-BASED ELECTRIC POWER ENTERPRISE FINANCIAL MANAGEMENT INFORMATION SYSTEM CONSTRUCTION

In order to describe the overall structure of the system more clearly, only the subsystems at the first level of the system are expanded. The specific structure is shown in Figure 1.

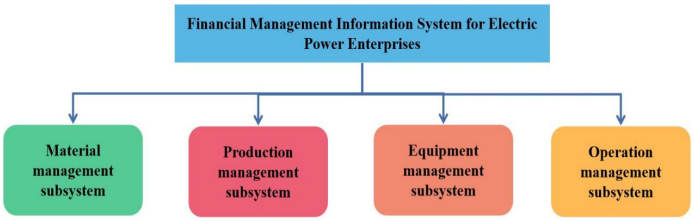

Fig 1: Overall structure diagram of the system

3.1 Network structure of power enterprise management information system

According to the structure of the network system, all departments of the power enterprise can run related subsystems in their own networks, and they all have the requirements of accessing the Internet to obtain information. Therefore, subnet technology is adopted in the design, so that the application systems of all units and departments can run on their own subnets [5-6]. The network structure of the system is shown in Figure 2.

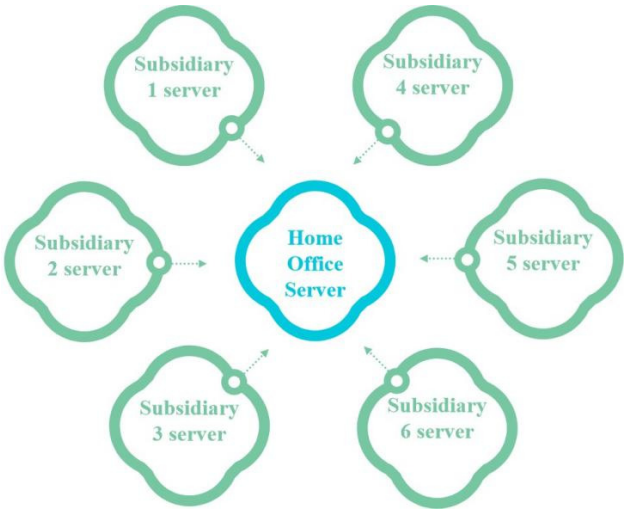

Fig 2: Schematic diagram of system network structure

As a global high-speed information highway, the Internet has attracted the attention of the world, and at the same time, it has attracted the attention of users and system administrators on security issues. If an enterprise decides to enter the Internet and put its business data on a WEB server, it is even more important to consider security issues. Taking necessary safety measures will have the following advantages:

(1) It can protect the interests of enterprises

The business data of an enterprise is directly related to the economic interests of the enterprise. If it is lost or tampered in the process of transmission and storage, it will cause unnecessary losses. More importantly, it will damage the reputation and credibility of enterprises.

(2) It can isolate key departments within the enterprise.

The access of enterprise network to Intennet increases the possibility of attack on enterprise internal network. With the development and perfection of business, scale and network functions of enterprises, measures to protect important departments should be set up within the network system. The important departments such as supply and finance can be separated by firewall system, which can better protect the resources within the enterprise from attacks.

(3) It can enhance the safety awareness of employees within the enterprise.

Through the analysis and publicity of network system security requirements, it will certainly help to enhance the security awareness of employees within the enterprise and strengthen the management of important business data. Any well-designed security system is inseparable from the close cooperation and standardized operation of system managers, maintenance personnel and operators. Therefore, making a comprehensive and reasonable security strategy is the basis to ensure the normal operation of the system, and strengthening the training of enterprise personnel is an important link [7].

4 DESIGN AND IMPLEMENTATION OF FINANCIAL MANAGEMENT INFORMATION SYSTEM FOR ELECTRIC POWER COMPANY

"Internet-based electric power enterprise financial management information system" manages the financial information of electric power enterprises by means of informationization. The whole system is complicated, so the whole complex system is divided into five subsystems when designing the system. The five subsystems include a system management subsystem that manages system settings, including users and permissions. A basic financial management subsystem that manages basic financial information, including accounting subjects and account sets. Cashier management and account book declaration management in traditional financial management. Finally, it is the management subsystem of electricity revenue and expenditure voucher. The system management subsystem is divided into operator management function, operator log query function, data import and export function, data recovery function, data backup function and other functional modules. The basic financial management subsystem is divided into account set attribute management, account management, basic information management, cash flow project management and other functional modules [8]. Cashier management subsystem is divided into diary transfer voucher management, bank

reconciliation function, journal and other functional modules. Account book declaration management subsystem is divided into multi-column account book management, quantity detailed account book, detailed account book, total amount account book management and other functional modules. The voucher management subsystem is divided into functional modules such as opening account establishment, closing transfer and voucher inquiry [9-10]. The server of the whole system is divided into two parts: database server and web server. The browser accesses the server through the network. The specific system topology is shown in Figure 3.

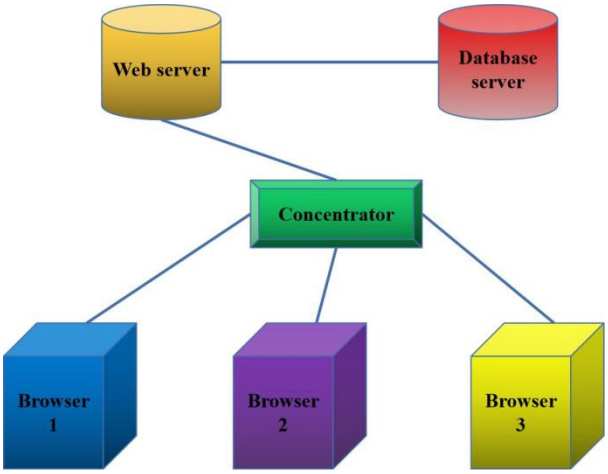

Fig 3: System topology structure

5 CONCLUSION

This paper introduces the design idea and scheme of financial management information system of electric power enterprises in detail, and puts forward some suggestions on financial management informatization from the characteristics of electric power enterprises and the development trend of enterprise informatization. The financial management system of electric power enterprises developed in this paper has the following characteristics: It helps enterprises to establish a comprehensive application system that meets the individual requirements of enterprises and can meet the needs of future development at a low cost of ownership;It can standardize business processes and improve the management level of enterprises; It can realize collaborative business between internal companies and employees, and between enterprises and external customers, suppliers and partners.

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